

AB, Railroad, Rio Vista Fires

Burned Area

Emergency Stabilization & Rehabilitation Plan

July 24, 2002

U.S. Fish and Wildlife Service
Sacramento National Wildlife Refuge Complex

Prepared by:
Interagency Burned Area Emergency Response Team

AB, Railroad and Rio Vista Fires BURNED AREA EMERGENCY STABILIZATION & REHABILITATION (ESR) PLAN

AGENCY/UNIT: U.S. Fish and Wildlife Service
Sacramento National Wildlife Refuge Complex

LOCATION: Glenn, Colusa and Tehama Counties, California

DATE: July 24, 2002

PREPARED BY: United States Department of the Interior
Sacramento National Wildlife Refuge Complex &
California/Nevada Operations Office

Submitted By: _____ **Date:** _____
Kevin Foerster, Project Leader
Sacramento National Wildlife Refuge Complex

**DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY STABILIZATION & REHABILITATION PLAN
ACCOMPLISHMENT REPORT**

EXECUTIVE SUMMARY

Introduction

This plan has been prepared in accordance with the U.S. Department of the Interior, *Burned Area Emergency Stabilization General Policy and Procedures* (620 DM 3) January, 2001 and U.S. Fish and Wildlife Service Burned Area, Interim Burned Area Emergency Stabilization and Rehabilitation Guidelines (2002). This plan provides for Emergency Stabilization and Rehabilitation (ESR) for all Federal lands burned within three fires that occurred within the Sacramento National Wildlife Refuge (NWR) Complex between June 10 and July 11, 2002. These fires included: the 45-acre Railroad Fire at Sacramento NWR (6/10/02); the 2-acre Rio Vista Fire, Sacramento River NWR (7/1/02); and the 750-acre AB Fire at Sacramento NWR (7/11/02). The primary objectives of this Burned Area Emergency Stabilization and Rehabilitation (ESR) Plan are:

- * □ To prescribe post-fire mitigation measures necessary to protect human life, property, and critical cultural and natural resources
- * □ To promptly mitigate unacceptable effects of fire and its suppression on lands within the burned area in accordance with management policies, and all relevant federal, state, and local laws and regulations

This plan addresses rehabilitation of fire suppression impacts and emergency stabilization and rehabilitation of fire effects (while documented in this plan fire suppression impacts will be rehabilitated under the fire suppression account). A Burned Area Emergency Response (BAER) Team was established lead by the California/Nevada Operations Office and comprised of staff at Sacramento National Wildlife Refuge Complex. The BAER Team conducted an analysis of fire effects throughout the burned area. The Wildlife Biologist conducted an assessment of effects of the fire on federal listed threatened and endangered species, the fire effects on the refuge management program for these species, as well as impacts to the refuges waterfowl management program. The Supervisor Refuge Biologist also served as the vegetation specialist in evaluating the effects of the fire on existing noxious weeds within the burned area and the post-fire effect on refuges existing noxious weed management program. Of primary concern were the fire effects on recent riparian woodland habitat plantations on the Rio Vista Fire and threatened and endangered plant species associated with rare native grasslands and vernal pool habitat on Sacramento NWR. There are no known cultural resource sites within the burned area. Fire suppression impacts were mapped and rehabilitation treatments were developed.

Management Requirements

Sacramento was established by Executive Order 7562 and Sacramento River National Wildlife Refuge was Congressionally established in 1989. Lands within the refuges were purchased under Migratory Bird Conservation Act (16 U.S.C., Section 715d), Fish and Wildlife Coordination Act (16 U.S.C. 664), and the Fish and Wildlife Act of 1956 (16 U.S.C. 742f(b)(1)). The Executive and Congressionally established purposes for the Sacramento NWR are:

...as a refuge and breeding ground for migratory birds and other wildlife (Executive Order 7562, 1937)

for use as an inviolate sanctuary, or for any other management purpose for migratory birds (Migratory Bird Conservation Act)

... to conserve (A) fish or wildlife which are listed as endangered species or threatened species...or (B) plants. (16 U.S.C. 1534 - Endangered Species Act of 1973)

...suitable for (1) incidental fish and wildlife-oriented recreational development, (2) the protection of natural resources, (3) the conservation of endangered species and threatened species...16 U.S.C. 460-1... the Secretary...may accept and use...real...property. Such acceptance may be accomplished under the terms conditions of restrictive covenants imposed by donors...16 U.S.C. 460-2 (Refuge Recreation Act - 16 U.S.C. 460k-460k, as amended).

for the development, advancement, management, conservation, and protection of fish and wildlife resources... for the benefit of the United States Fish and Wildlife Service, in performing its activities and services. Such acceptance may be subject to the terms of any restrictive or affirmative covenant, or condition of servitude (Fish and Wildlife Act)

Sacramento River NWR purposes

... to conserve (A) fish or wildlife which are listed as endangered species or threatened species...or (B) plants. (16 U.S.C. 1534 - Endangered Species Act of 1973)

for use as an inviolate sanctuary, or for any other management purpose for migratory birds (Migratory Bird Conservation Act)

for the development, advancement, management, conservation, and protection of fish and wildlife resources... for the benefit of the United States Fish and Wildlife Service, in performing its activities and services. Such acceptance may be subject to the terms of any restrictive or affirmative covenant, or condition of servitude (Fish and Wildlife Act)

Refuge management is further directed by the National Wildlife Refuge System Administration Act as Amended by the National Wildlife Refuge Improvement Act of 1997 and specific approved land management plans including:

Sacramento River NWR Fire Management Plan (2002)
Sacramento NWR Complex Fire Management Plan (2001)
Sacramento NWR Refuge Management Plans (1988)
Sacramento NWR Complex Master Plan (1968)
Sacramento River NWR, River Vista Riparian Restoration Plan (1993)
Sacramento NWR and Sacramento River NWR Annual Habitat Management Plans
Annual Integrated Pest Management Plan

Burned Area Emergency Response

The Refuge Project Leader requested consulted with the California/Nevada Operations office regarding Burned Area Emergency Stabilization and Rehabilitation Assistance, and it was determined that a BAER Team could be assembled at the refuge with available staff under the direction of a CNO Team Leader.

The BAER Team, tasked with evaluation of fire suppression impacts rehabilitation and ESR needs, developed this plan to address the following issues:

- * □ Rehabilitation requirements established by Federal law, policies, and relevant approved resource management plans.
- * □ Implementation of treatments in a timely manner to prevent irreversible natural resource damage from spread of noxious weeds.
- * □ Monitor of recovery of burned mixed riparian woodland restoration plantation burned by the fire to determine if replanting is required.

- * □ Rehabilitation of fire suppression impacts including dozerline/discline and road system damage.

Resource Damages and Threats to Resources and Human Safety

The BAER Team conducted intensive field surveys after the fire to identify impacts and compiled the following recommendations for rehabilitation of affected lands:

Fire Suppression Rehabilitation:

- * □ Rehabilitate (recontour) 6.5 miles of dozerline/discline.
- * □ Chemically treat dozerline/discline (spring) for noxious weeds (especially yellow star thistle and pepper weed).
- * □ Repair 2 miles of road damaged by fire suppression activities.

Emergency Stabilization and Rehabilitation

- * □ Monitor noxious weeds in burned area for first growing season.
- * □ Chemically Treat up to 796 acres of burned management units to prevent expansion of pre-fire seed sources of noxious weeds, including star thistle, pepperweed, milk thistle, and Perla grass.
- * □ Monitor recovery of mixed riparian woodland restoration plantation.
- * □ Replant mixed riparian woodland restoration plantation if necessary.
- * □ Hire Temporary Biological Technician for implementation, tracking, and reporting of monitoring and chemical treatments.

**DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY STABILIZATION & REHABILITATION PLAN
ACCOMPLISHMENT REPORT**

PART A FIRE LOCATION AND BACKGROUND INFORMATION

Fire Names	Railroad Fire Rio Vista Fire AB Fire	Dates Contained	June 10, 2002 July 1, 2002 July 9, 2002
Fire Number	11620-9261-1457 11620-9261-1498 11620-9261-1514	Dates Controlled	June 11, 2002 July 1, 2002 July 15, 2002
Agency Unit	Sacramento National Wildlife Refuge Complex		
Region	R1, California/Nevada Operations	Total Acres Burned	45 acres 2 acres 750 acres
State(s)	California		
County(s)	Glenn, Colusa, Tehama	Acres / Jurisdiction	
Ignition Date/Manner	Train Bird on power pole Mowing vegetation	FWS	796 acres
Zone	North	Private	1 acre

PART B NATURE OF PLAN

I. Type of Plan (check one box below):

<input type="checkbox"/>	Suppression Rehabilitation (complete Parts A, B, C, and H only)
<input type="checkbox"/>	Emergency Stabilization & Rehabilitation (complete all parts)
<input type="checkbox"/>	Both Suppression & ESR (completed all parts)

II. Type of Action (check one box below):

<input type="checkbox"/>	Initial submission
<input type="checkbox"/>	Updating or revising the initial submission
<input type="checkbox"/>	Supplying information for accomplishment to date on work underway
<input type="checkbox"/>	Final report (to comply with the closure of the EFR account)

**DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY STABILIZATION & REHABILITATION PLAN**

ACCOMPLISHMENT REPORT

PART C REHABILITATION ASSESSMENT

I. Rehabilitation Objectives:

- * ☐ Recommend post-fire rehabilitation prescriptions which prevent irreversible loss of natural and cultural resources.
- * ☐ As practical and necessary, restore natural conditions to areas disturbed by fire suppression actions.
- * ☐ Conduct immediate post-burn reconnaissance for fire suppression related impacts to T&E species.
- * ☐ Provide long-term monitoring recommendations intended to ensure the success of rehabilitation efforts.

II. Rehabilitation Recommendations:

See Summary of Rehabilitation Recommendations.

III. BAER Team Members

SPECIALTY/PROFESSION	NAME/AGENCY	ASSESSMENT INCLUDED (Yes or No)
Team Leader	Richard Hadley (FWS)	no
Operations	Perry Grissom (FWS)	no
Hydrologist	N/A	N/A
Soil Scientist	N/A	N/A
Forester	N/A	N/A
Cultural Resource/Archeologist	N/A	N/A
Vegetation Specialist	Joe Silveira (FWS)	no
Wildlife Biologist	Mike Wolder (FWS)	no
Environmental Protection Spec.	Richard Hadley (FWS)	no

IV. Resource Advisors: (Note: Resource Advisors are individuals who assisted the BAER Team with the preparation of this plan. See Part H of this plan for a full list of agencies and individuals who were consulted or otherwise contributed to the development of this plan.

NAME	AFFILIATION, SPECIALTY, or PROFESSION
Kevin Foerster	Sacramento NWRC, Project Leader
Kelly Moroney	Sacramento River NWR, Refuge Manager
Steve Emmons	Sacramento NWR, Refuge Manager
Kipp Morrill	Supervisor Range Tech. - Fire
Perry Grissom	Fire Management Officer
Joel Miller	Assistant Refuge Supervisor
Mike Wolder	Supervisory Wildlife Biologist

**DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY STABILIZATION & REHABILITATION PLAN
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PART D SUMMARY OF APPROVAL AUTHORITIES (By Activities/Cost)

ACTIVITIES REQUIRING PROJECT LEADER APPROVAL		COST
Fire Suppression Damages (charged to Fire Suppression)		
Dozerline/discipline Rehabilitation		\$1,600
Chemical Treat Noxious Weeds on Dozerline/discipline		\$7,268
Replace Resource Protection Signs Damaged by Suppression Equipment		\$162
Repair Refuge Roads Impacted by Fire Suppression Equipment		\$6,440
SUBTOTAL		\$15,470

ACTIVITIES REQUIRING REGIONAL OFFICE REVIEW/APPROVAL:		
Long-term ESR request (charged to ESR)		
Chemically Treat Burned Noxious Weed Management Units		\$28,867
Monitor Chemical Treatment of Burned Noxious Weed Management Units		\$6,304
Monitor Damage to Revegetation Plantation		\$1,326
SUBTOTAL		\$36,497

Activities Requiring Project Leader s Approval:		
FWS Base Funding		
N/A		
SUBTOTAL		

TOTAL REHABILITATION COST (short & long-term)	\$51,967
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**DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY STABILIZATION & REHABILITATION PLAN
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PART E SUMMARY OF ACTIVITIES

The SUMMARY OF ACTIVITIES table identifies **trackable** Suppression Rehabilitation costs charged to fire account, costs proposed for Emergency Stabilization and Rehabilitation (ESR) funding, agency operation funds, and other funding sources. Only trackable expenditures are displayed in the total cost column. They are coded with the appropriate cost authority. The total cost of the rehabilitation effort to date, excluding the costs absorbed by the fire (fire crew, labor and associated overhead) is displayed as either Fire Suppression Rehabilitation (**F**), Emergency Stabilization & Rehabilitation (**ESR**), Agency Operations (**OP**) or Other (**O**).

PART E - SUMMARY OF ACTIVITIES - Sacramento NWR Complex

TREATMENT SPECIFICATION	UNIT	UNIT COST	# OF UNITS	COST BY FUND SOURCE			IMPLEME NTATION METHOD	SPECIFICATIO N TOTAL
				FIRE	ES	R		
S-1 Dozerline/discline Rehabilitation	Miles	\$ 246	6.5	\$ 1,600	\$ 0		P	\$ 1,600
S-2 Chemically Treat Noxious Weeds on Dozerline/discline	Acres	\$ 454	16.0	\$ 7,268	\$ 0		P	\$ 7,268
S-3 Replace Resource Protection Signs	Signs	\$ 81	2	\$ 162	\$ 0		P	\$ 162
S-4 Repair Refuge Roads Impacted by Fire Suppression Equipment	Miles	\$ 3,220	2.0	\$ 6,440	\$ 0		P	\$ 6,440
N-1 Chemically Treat Noxious Weed Management Units	Acres	\$ 42	796	\$ 0	\$ 28,867		P	\$ 28,867
N-2 Monitor Chemical Treatment of Noxious Weed Management Units	Acres	\$ 8	796	\$ 0	\$ 6,304		P	\$ 6,304
N-3 Monitor Mortality of Burned Riparian Plantation	Acres	\$ 664	2	\$ 0	\$ 1,326		P	\$ 1,326
TOTAL				\$ 15,470	\$ 36,497			\$ 51,967
COST: F=Suppression; ES= Emergency Stabilization.; R = Long-term Rehabilitation METHOD: FC=Crews Assigned to Fire; C=Contract; EFC=Emergency Fire Contract; P=Agency Personnel								

**DEPARTMENT OF THE INTERIOR
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PART F - SPECIFICATIONS

SPECIFICATION TITLE:	Dozerline/discline Rehabilitation	AGENCY:	FWS
PART E LINE ITEM:	S-1 Dozerline/discline	FISCAL YEAR(S) (list each year):	2002

I. WORK TO BE DONE (describe or attach exact specifications of work to be done):

<p>Number and Describe Each Task:</p> <p>A. General Description: Rehabilitation of fire suppression constructed dozerline and discline is necessary to avoid soil erosion and to restore natural surface flows.</p> <p>B. Location/(Suitable) Sites: Approximately 6.5 miles of dozerline/discline was constructed on the AB Fire.</p> <p>C. Design/Construction Specifications:</p> <ol style="list-style-type: none"> 1. Return soil side cast in berms and recover fill materials and replace in cuts along dozer line blending disturbed areas to fit the natural contours. Restore sides of dikes that were disced. This may be accomplished with a grader, scraper, and/or dozer. 2. Fill materials should be cleaned or removed from already disturbed soils or flat managed wetland units. <p>D. Purpose of Treatment Specification: Prevention of surface and gully erosion and erosion of dikes.</p>

II. LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): Do not include contract personnel costs here (see contractor services below).	COST/ITEM
WG - 9/5 scraper operator @ \$32/hr x 25 hours x 1 fiscal year	\$800
WG - 9/5 dozer/grader operator @ \$32/hr x 25 hrs x 1 fiscal year	\$800
TOTAL PERSONNEL SERVICE COST	\$1,600
EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): Note: Purchases require written justification that demonstrates cost benefits over leasing or renting.	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNITS COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	MILE	\$246.00	6.5	\$1,600	F	P
FY 2						
FY 3						
TOTAL	MILE	\$246.00	6.5	\$1,600	F	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP = Agency Operating Fund
O = Other

METHODS:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies	
4. Estimates based upon government wage rates and material cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services, **M** = Materials/Supplies, **T** = Travel, **C** = Contract, **F** = Suppression

III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:

List Relevant Documentation and Cross-Reference Location within BAER Report:
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**DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY STABILIZATION & REHABILITATION PLAN
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PART F - SPECIFICATIONS

SPECIFICATION TITLE:	Chemically Treat Noxious Weeds on Dozerline/discipline	AGENCY:	FWS
PART E LINE ITEM:	S-2 Noxious Weeds	FISCAL YEAR(S) (list each year):	2003

I. WORK TO BE DONE (describe or attach exact specifications of work to be done):

<p>Number and Describe Each Task:</p> <p>A. General Description: Chemically treat known noxious weed infestation areas along dozerline/discipline within the burned area to prevent post-fire spread of weeds, especially yellow star thistle, pepper weed, and milk thistle. There are approximately 16 acres to be treated.</p> <p>B. Location/(Suitable) Sites: Known areas of weed infestation along the dozerline/discipline that were under active control through the refuge's integrated pest management program..</p> <p>C. Design/Construction Specifications:</p> <ol style="list-style-type: none"> 1. Use certified pesticide applicator. 2. Treat areas using chemical treatments approved in the refuge's annual Integrated Pest Management Program. <p>D. Purpose of Treatment Specification: Prevent re-infestation of yellow star thistle and pepper weed into areas under active noxious weed management by the refuge under their approved IPM program.</p>
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II. LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): Do not include contract personnel costs here (see contractor services below).		COST/ITEM
GS-7 @ \$14 / hr x 240 hrs x 1 fiscal year		\$3,360
WG-9/5 certified chemical applicator @ \$21 / hr x 30 hrs x 1 fiscal year		\$630
GS-12 Biologist/RM @ \$24 / hr x 48 hrs x 1 fiscal year		\$1,152
TOTAL PERSONNEL SERVICE COST		\$5,142
		COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST		
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):		COST/ITEM
68 lbs. Telar @ \$ 360 / lb. (application rate of 3 oz. / ac)		\$1,080
1.5 gal. Transline @ \$ 324 / gal. (application rate of 11 oz. / ac)		\$486
surfactant (1 qt. / 100 gallon solution)		\$560
TOTAL MATERIALS AND SUPPLY COST		\$2,126
TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):		COST/ITEM
TOTAL TRAVEL COST		

CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNITS COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1						
FY 2	ACRES	\$454.00	16.0	\$7,268	F	P
FY 3						
TOTAL	ACRES	\$454.00	16.0	\$7,268	F	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP = Agency Operating Fund
O = Other

METHODS:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies	M
4. Estimates based upon government wage rates and material cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services, M = Materials/Supplies, T = Travel, C = Contract, F = Suppression

III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:

List Relevant Documentation and Cross-Reference Location within BAER Report:
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**DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY STABILIZATION & REHABILITATION PLAN
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PART F - SPECIFICATIONS

SPECIFICATION TITLE:	Replace Resource Protection Signs	AGENCY:	FWS
PART E LINE ITEM:	S3 Sign Replacement	FISCAL YEAR(S) (list each year):	2002

I. WORK TO BE DONE (describe or attach exact specifications of work to be done):

<p>Number and Describe Each Task:</p> <p>A. General Description: Replace resource protection signs damaged during discing of firelines.</p> <p>B. Location/(Suitable) Sites: Refuge sign locations on disclines.</p> <p>C. Design/Construction Specifications:</p> <p style="margin-left: 20px;">1. Replace damaged signs and posts with new signs and posts.</p> <p>D. Purpose of Treatment Specification: To inform refuge visitors of area closures.</p>
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II. LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): Do not include contract personnel costs here (see contractor services below).	COST/ITEM
WG - 9/5 field crew worker @ \$32/hr x 4 hours x 1 fiscal year	\$128
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): Note: Purchases require written justification that demonstrates cost benefits over leasing or renting.	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):	COST/ITEM
Closed Area Signs @ \$6.85 ea. X 2	\$14
Posts @ \$10 x 2	\$20
TOTAL MATERIALS AND SUPPLY COST	\$34
TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNITS COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	SIGN	\$81.00	2.0	\$162	F	P
FY 2						
FY 3						
TOTAL	SIGN	\$81.00	2.0	\$162	F	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP = Agency Operating Fund
O = Other

METHODS:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies	M/P
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services, **M** = Materials/Supplies, **T** = Travel, **C** = Contract, **F** = Suppression

III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:

List Relevant Documentation and Cross-Reference Location within BAER Report:
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**DEPARTMENT OF THE INTERIOR
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PART F - SPECIFICATIONS

SPECIFICATION TITLE:	Repair Refuge Roads Impacted by Fire Suppression Equipment	AGENCY:	FWS
PART E LINE ITEM:	S-4 Road Repairs	FISCAL YEAR(S) (list each year):	2002

I. WORK TO BE DONE (describe or attach exact specifications of work to be done):

Number and Describe Each Task:
<p>A. General Description: Rehabilitation of pre-existing roads is necessary to repair damage inflicted to road during suppression and avoid ponding on road surfaces and accelerated degradation. Replace gravel surface lost because of discing of tops of dikes. The intent is not to improve the road but re-establish the road surface and drainage pattern to pre-fire conditions. A grader is the preferred equipment.</p> <p>B. Location/(Suitable) Sites: Approximately 2 miles of refuge road system (see fire map).</p> <p>C. Design/Construction Specifications:</p> <ol style="list-style-type: none"> 1. All road to be graded shall be watered prior to grading activity. 2. Damage from traffic of suppression vehicles will be smoothed and filled. 3. Gravel surface lost because of discing of dike tops will be replaced. 4. Berms and vegetation piles created by dozers on the edge of the road shall be feathered out and recontoured to pre-fire road shoulder conditions. <p>E. Purpose of Treatment Specification: To return the gravel road surfaces to prefire conditions.</p>

II. LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): Do not include contract personnel costs here (see contractor services below).	COST/ITEM
WG - 9/5 grader operator @ \$32/hr x 36 hrs x 1 fiscal year	\$1,152
WG - 9/5 water tender operator @ \$32/hr x 9 hours x 1 fiscal year	\$288
TOTAL PERSONNEL SERVICE COST	\$1,440
EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): Note: Purchases require written justification that demonstrates cost benefits over leasing or renting.	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):	COST/ITEM
gravel @ \$ 10 / ton x 500 tons x 1 fiscal year	\$5,000
TOTAL MATERIALS AND SUPPLY COST	\$5,000
TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL TRAVEL COST	

CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNITS COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	MILE	\$3,220.00	2.0	\$6,440	F	P
FY 2						
FY 3						
TOTAL	MILE	\$3,220.00	2.0	\$6,440	F	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP = Agency Operating Fund
O = Other

METHODS:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	M
3. Estimate supported by cost guides from independent sources or other federal agencies	
4. Estimates based upon government wage rates and material cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services, M = Materials/Supplies, T = Travel, C = Contract, F = Suppression

III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:

List Relevant Documentation and Cross-Reference Location within BAER Report:
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PART F - SPECIFICATIONS

SPECIFICATION TITLE:	Chemically Treat Noxious Weed Management Units	AGENCY:	FWS
PART E LINE ITEM:	N-1 Noxious Weeds	FISCAL YEAR(S) (list each year):	2003-2004

I. WORK TO BE DONE (describe or attach exact specifications of work to be done):

<p>Number and Describe Each Task:</p> <p>A. General Description: Chemically treat up to 796 acres of burned habitat prone to advanced spread of yellow starthistle, pepperweed, Perla grass, and other noxious weeds as the result of loss of native vegetative cover and nutrient release via fire ash.</p> <p>B. Location/(Suitable) Sites:</p> <p>C. Design/Construction Specifications:</p> <ol style="list-style-type: none"> 1. Use certified pesticide applicator. 2. Treat areas using chemical treatments approved in the refuge s annual Integrated Pest Management Program. (Telar - pepperweed, Transline - star thistle, Roundup - non-native grasses (e.g., Perla grass). <p>D. Purpose of Treatment Specification: Prevent re-infestation of yellow star thistle, pepper weed, Perla grass, and other noxious weeds into areas under active noxious weed management by the refuge under their approved IPM program.</p>

II. LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): Do not include contract personnel costs here (see contractor services below).		COST/ITEM
GS-7 @ \$14 / hr x 560 hrs x 1 fiscal year		\$7,840
WG-9/5 certified pesticide applicator @ \$21 / hr x 75 hrs x 1 fiscal year		\$1,575
GS - 12 Biologist/RM @ \$24 / hr x 64 hrs x 1 fiscal year		\$1,536
TOTAL PERSONNEL SERVICE COST		\$10,951
EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): Note: Purchases require written justification that demonstrates cost benefits over leasing or renting.		COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST		
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):		COST/ITEM
15 lbs. Telar @ \$360 /lb. (application rate of 3 oz. / ac.) x 1 fiscal year		\$5,400
34 gallons Transline @ \$324 / gal. (application rate of 11 oz. / ac.) x 1 fiscal year		\$11,016
10 gallons Roundup @ \$94 / gal. x 1 fiscal year		\$940
surfactant		\$560
TOTAL MATERIALS AND SUPPLY COST		\$17,916
TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):		COST/ITEM
TOTAL TRAVEL COST		

CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNITS COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1						
FY 2	ACRES	\$36.26	796.0	\$28,867	ESR	P
FY 3						
TOTAL	ACRES	\$36.26	796.0	\$28,867	ESR	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP = Agency Operating Fund
O = Other

METHODS:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies	M
4. Estimates based upon government wage rates and material cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services, M = Materials/Supplies, T = Travel, C = Contract, F = Suppression

III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:

List Relevant Documentation and Cross-Reference Location within BAER Report:
Estimated required pesticide coverage for Telar and Transline is 50% of burned area.

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AND ACCOMPLISHMENT REPORT**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	Monitor Noxious Weed Treatments	AGENCY:	FWS
PART E LINE ITEM:	N-2 Noxious Weed Monitoring	FISCAL YEAR(S) (list each year):	2003, 2004

I. WORK TO BE DONE (describe or attach exact specifications of work to be done):

<p>Number and Describe Each Task:</p> <p>A. General Description: Yellow-star thistle treatments will likely be successful and addition follow-up treatments may not be necessary. However, pepper weed frequently requires follow-up treatments.</p> <p>B. Location/(Suitable) Sites: Mapped dozerline/discline and chemical treatment areas.</p> <p>C. Design/Construction Specifications:</p> <ol style="list-style-type: none"> 1. Assigned staff will conduct a visual inspect of dozerlines and treated noxious weed infestation areas during spring weed season of 2003. 2. Areas in need of further weed treatment for yellow star thistle, pepper weed, and other noxious weeds will be mapped and GPS coordinates will be taken. <p>D. Purpose of Treatment Specification: Monitoring during the spring of 2003 is required to determine if noxious weed treatments on dozerlines and known noxious weed infestation areas of the burned area require follow-up treatment. If additional treatments are required a supplemental chemical treatment specification can be submitted for approval.</p>

II. LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): Do not include contract personnel costs here (see contractor services below).		COST/ITEM
GS-12 Biologist/RM @ \$24 / hr X 48 hrs x 2 fiscal years		\$2,304
GS-7 Biological Technician @ \$14 / hr x 200 hrs x 1 fiscal year		\$2,800
TOTAL PERSONNEL SERVICE COST		\$5,104
EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): Note: Purchases require written justification that demonstrates cost benefits over leasing or renting.		COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST		
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):		COST/ITEM
Plot markers @ \$20 / ea. x 20 x 1 fiscal year		\$400
Maps/mapping supplies x 2 fiscal years		\$400
TOTAL MATERIALS AND SUPPLY COST		\$800
TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):		COST/ITEM
TOTAL TRAVEL COST		

CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNITS COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1						
FY 2	ACRES	\$5.97	796.0	\$4,752	ESR	P
FY 3	ACRES	\$1.95	796.0	\$1,552	ESR	P
TOTAL	ACRES	\$7.92	796.0	\$6,304	ESR	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP = Agency Operating Fund
O = Other

METHODS:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies	
4. Estimates based upon government wage rates and material cost.	M/P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services, M = Materials/Supplies, T = Travel, C = Contract, F = Suppression

III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:

List Relevant Documentation and Cross-Reference Location within BAER Report:
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PART F - SPECIFICATIONS

SPECIFICATION TITLE:	MONITOR MORTALITY OF BURNED RIPARIAN RESTORATION PLANTATION	AGENCY:	FWS
PART E LINE ITEM:	N-3 Monitor Riparian Restoration Recovery	FISCAL YEAR(S) (list each year):	2002

I. WORK TO BE DONE (describe or attach exact specifications of work to be done):

<p>Number and Describe Each Task:</p> <p>A. General Description: This specification provides for monitoring of tree mortality in mixed riparian woodland restoration site that was planted and burned over by the Rio Vista Fire..</p> <p>B. Location/(Suitable) Sites: Sacramento River National Wildlife Refuge, CA</p> <p>C. Design/Construction Specifications:</p> <p>1. This specification would provide for a contracted biologist to monitor tree mortality of the planted mixed riparian woodland to determine if significant tree mortality has occurred and whether sufficient resprouting will occur. Surveys will occur immediately upon funding and after three major rain events.</p> <p>D. Purpose of Treatment Specification: If surveys indicate greater than 25% mortality has occurred as the result of the fire a supplemental request will be submitted to replant damage portions of the plantation.</p>
--

II. LABOR, MATERIALS AND OTHER COST:

PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): Do not include contract personnel costs here (see contractor services below).		COST/ITEM
GS-7 @ \$14 / hr x 40 hrs x 1 fiscal year		\$560
GS-12 Biologist/RM @ \$24 / hr x 32 hrs x 1 fiscal year		\$768
TOTAL PERSONNEL SERVICE COST		\$1,328
EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): Note: Purchases require written justification that demonstrates cost benefits over leasing or renting.		COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST		
MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):		COST/ITEM
TOTAL MATERIALS AND SUPPLY COST		
TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):		COST/ITEM
TOTAL TRAVEL COST		
CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):		COST/ITEM
TOTAL CONTRACT COST		

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNITS COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1						
FY 2	Survey	\$664.00	2.0	\$1,328	ESR	P
FY 3						
TOTAL		\$664.00	2.0	\$1,326	ESR	P

FUNDING SOURCES:

F = Fire Suppression Account
EFR = Emergency Fire Rehabilitation
OP = Agency Operating Fund
O = Other

METHODS:

P = Agency Personnel Services
C = Contract (long-term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies	
4. Estimates based upon government wage rates and material cost.	P
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services, M = Materials/Supplies, T = Travel, C = Contract, F = Suppression

III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:

List Relevant Documentation and Cross-Reference Location within BAER Report:
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**DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY STABILIZATION & REHABILITATION PLAN
AND ACCOMPLISHMENT REPORT**

**PART G FWS - SACRAMENTO NATIONAL WILDLIFE REFUGE COMPLEX - REVIEW AND
APPROVAL**

I. Suppression Related Rehabilitation Approval (check one box below):

- * ☐ Approved
* ☐ Approved with Revision
* ☐ Disapproved

Explanation for revision or disapproval:

Kevin Foerster, Project Leader, Sacramento NWRC

Date

II. Emergency Stabilization & Rehabilitation (ESR) Approval (check one box below):

- * ☐ Approved
* ☐ Approved with Revision
* ☐ Disapproved

Explanation for revision or non-concurrence:

Stephen Thompson, Manager, California/Nevada Operations

Date

**DEPARTMENT OF THE INTERIOR
BURNED AREA EMERGENCY STABILIZATION & REHABILITATION PLAN
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APPENDIX II: ENVIRONMENTAL DOCUMENTATION CONSULTATIONS

- * ☐ National Environmental Policy Act, Compliance Documentation
- * ☐ Categorical Exclusion Checklist
- * ☐ National Historic Preservation Act (Section 106) Compliance

**AB, RAILROAD, AND RIO VISTA FIRE
BURNED AREA EMERGENCY STABILIZATION AND REHABILITATION PLAN
Environmental Compliance Considerations and Documentation**

A. FEDERAL, STATE, AND PRIVATE LANDS ENVIRONMENTAL COMPLIANCE RESPONSIBILITIES

All projects proposed in this Burned Area Emergency Stabilization and Rehabilitation (ESR) Plan that are prescribed, funded, or implemented by Federal agencies on Federal, State, Tribal, or private lands are subject to compliance with the *National Environmental Policy Act* (NEPA) in accordance with the guidelines provided by the *Council on Environmental Quality (CEQ) Regulations (40 CFR 1500-1508)*. This Appendix documents the Interagency BAER Team considerations of NEPA compliance requirements for prescribed rehabilitation and monitoring actions described in this plan.

This plan has been developed by an interdisciplinary BAER Planning Team comprised of representatives from the: U.S. Department of the Interior (DOI) , U.S. Fish and Wildlife Service, California/Nevada Operations Office, and Sacramento National Wildlife Refuge Complex.

B. RELATED PLANS AND CUMULATIVE IMPACTS ANALYSIS

The individual actions recommended by the BAER Team in the 165 Fire Burned Area Emergency Stabilization and Rehabilitation Plan are adequately covered by the:

Intra-agency Formal Section 7 Consultation on Management, Operations, and Maintenance, Sacramento NWR Complex (April 1999); Environmental Assessment, Fire Management Plan for the Sacramento NWR Complex (July 1992); or the Annual Integrated Pest Management Plan, Sacramento National Wildlife Refuge Complex; or are Categorical Exclusions from further environmental analysis as provided for in the Department of the Interior, Manual Part 516, and U.S. Fish and Wildlife Service, NEPA Guidelines, Part 516 DM 6, Appendix 1 .

All applicable and relevant Department and Agency Categorical Exclusions are listed below. Department exceptions (516) DM 2.3 do not apply to any of the individual actions proposed.

Departmental Categorical Exclusions:

- | | |
|---------------------------|---|
| 516 DM 6 App. 1.4A(3) iii | The planting of seeds or seedlings and other minor revegetation actions. |
| 516 DM 6 App. 1.4A(5) | Fire management activities, including prevention and restoration measures, when conducted in accordance with departmental and Service procedures. |

U.S. Fish and Wildlife Service Categorical Exclusions:

- (1) Research, inventory, and information collection activities directly related to the conservation of fish and wildlife resources which involve negligible animal mortality or habitat destruction, no introduction of contaminants, or no introduction of organisms not indigenous to the affected ecosystem.
- (3) The construction of new, or the addition of, small structures or improvements, including structures and improvements for the restoration of wetland, riparian, instream, or native habitats, which result in no or only minor changes in the use of the affected local area. The following are examples of activities that may be included.
 - i. The installation of fences.
 - ii. The construction of small water control structures.

- iii. The planting of seeds or seedlings and other minor revegetation actions.
- iv. The construction of small berms or dikes.
- v. The development of limited access for routine maintenance and management purposes.

(5) Fire management activities including prevention and restoration measures, when conducted in accordance with departmental and Service procedures.

Cumulative Impact Analysis: Cumulative effects are the environmental impacts resulting from the incremental impacts of a proposed action, when added to other past, present, and reasonably foreseeable future actions, both Federal and nonfederal. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time. The emergency protection and rehabilitation treatments for AB, Railroad, and Rio Vista Fires, as proposed in this ESR Plan, do not result in an intensity of impact (i.e. major ground disturbance, etc.) that would cumulatively constitute a significant impact on the quality of the environment. The treatments are consistent with the above jurisdictional management plans and associated environmental compliance documents.

No direct or indirect unavoidable adverse impacts to the biological or physical environment would result from the implementation of this ESR Plan. The implementation of emergency stabilization and rehabilitation treatments proposed in the plan would not result in any adverse effect on the burned area or areas downstream. Conversely, implementation of the plan would be expected to result in a cumulatively beneficial effect by reducing the extent and intensity of the fire's effect on native wildlife and plant species.

C. STATEMENT OF COMPLIANCE FOR THE AB, RAILROAD, AND RIO VISTA FIRES BURNED AREA EMERGENCY REHABILITATION PLAN

This section documents considerations given in development of this ESR Plan to the requirements of specific environmental laws. Specific consultations initiated or completed during development and implementation of this plan are also documented. The following executive orders and legislative acts have been reviewed as they apply to the ESR Plan.

1. **Executive Order 11593. Protection and Enhancement of Cultural Environment and National Historic Preservation Act (NHPA).** The Refuge Project Leader has verified that there are no known historic or prehistoric resource within the AB, Railroad, and Rio Vista Fire burned areas.
2. **Executive Order 11988. Floodplain Management.** Treatments proposed within this plan due occur within the 100-year floodplain however the treatments do not constitute structures, fills, or changes in land use as defined by this order.
3. **Executive Order 11990. Protection of Wetlands.** Treatments proposed within this plan due occur within jurisdictional wetlands however the treatments do not constitute an action that falls within the federal actions defined by this order.
4. **Executive Order 12372. Intergovernmental Review.** Coordination and consultation is ongoing with affected Tribes, Federal, State, and local agencies. A copy of the plan will be disseminated to all affected agencies.
5. **Executive Order 12892. Federal Actions to Address Environmental Justice in Minority and Low-Income Populations.** All Federal actions must address and identify, as appropriate, disproportionately high and adverse human health or low-income populations, and Indian Tribes in the United States. The BAER Team Environmental Protection Specialist has determined that the actions proposed in this plan will result in no

adverse human health or environmental effects for minority or low-income populations and Indian Tribes.

6. **Endangered Species Act.** The Refuge Wildlife Biologists determined that the actions proposed in this plan will have no affect on federally and State listed.
7. **Secretarial Order 3127. Contaminants and Hazardous Waste.** There are no known contaminated sites within or within 1 mile of the 165 Fire burned area.
8. **Clean Water Act.** Any alteration to streams or waters of the United States requires compliance with Section 404 of the Clean Water Act. The BAER Team Environmental Specialist has determined that the action proposed in this plan would have no affect on water quality or quantity.
9. **Clean Air Act.** Federal Ambient Air Quality Primary and Secondary Standards are provided by the National Ambient Air Quality Standards (NAAQS), as established by the U.S. Environmental Protection Agency (EPA) (Clean Air Act, 42 U.S.C. 7470, et seq., as amended). The BAER Team Environmental Protection Specialist has determined that treatments prescribed in this ESR Plan will have short-term minor impacts to air quality that would not differ significantly from routine land use practices for the area. Long-term, treatments proposed in this plan would be expected to have a beneficial impact to air quality through stabilization of ash and soils within the AB, Railroad, and Rio Vista Fire burned areas.

Richard Hadley BAER Team, Environmental Protection Specialist

Date

**ENVIRONMENTAL COMPLIANCE AND CONSULTATIONS
DOCUMENTATION AND DECISION
AB, Rail Road, and Rio Vista Fire Burned Area Emergency Rehabilitation Plan**

NEPA CHECKLIST: If any of the following exception applies, the project cannot be Categorically Excluded and an Environmental Assessment (EA) is required.

(Yes) (No)

Adversely affect Public Health and Safety

Adversely affect historic or cultural resources, wilderness, wild and scenic rivers, aquifers, prime farmlands, wetlands, floodplains, ecologically critical areas, or Natural Landmarks.

Have highly controversial environmental effects.

Have highly uncertain environmental effects or involve unique or unknown environmental risks.

Establish a precedent resulting in significant environmental effects.

Relates to other actions with individually insignificant but cumulatively significant environmental effects.

Adversely effects properties listed or eligible for listing in the National Register of Historic Places.

Affect a species listed or proposed to be listed as Threatened or Endangered.

Threaten to violate any laws or requirements imposed for the "protection of the environment" such as Executive Order 1198 (Floodplains Management) or Executive Order 11990 (Protection of Wetlands).

NATIONAL HISTORIC PRESERVATION ACT

Ground Disturbance:

None

Ground disturbance did occur and an archeologist survey, required under section 110 of the NHPA has been or will be performed. A report has been prepared by the prepared by the BAER Team archeologist. Clearance documentation is attached.

A NHPA Clearance Form:

Is required because the project affects a site that is eligible or on the national register. The clearance form is attached. SHPO has been consulted under Section 106 (see Cultural Resource Assessment, Appendix I).

Is not required because the project has no potential to affect cultural resources (initial of cultural resource specialist).

OTHER REQUIREMENTS

(Yes) (No)

Does the project have potential to affect any Native American uses? If so, consultation with affiliated tribes is needed. Consultation has been completed with both the Santa Clara and San Ildefonso Tribes (see Cultural Resource Assessment, Appendix I).

Are any toxic chemicals, including pesticides or treated wood, proposed for use? If so, local agency integrated pest management specialists must be consulted.

The use of pesticides to control the spread of noxious weeds within the burned area will be conducted under an approved Integrated Pest Management Plan for the Sacramento National Wildlife Refuge Complex

I have reviewed the proposals in the AB, Railroad, and Rio Vista Fire Burned Area Emergency Stabilization and Rehabilitation Plan in accordance with the criteria above and have determined that the proposed actions would not involve any significant environmental effect. Therefore it is categorically excluded from further environmental (NEPA) review and documentation. BAER Team technical specialists have completed necessary coordination and consultation to insure compliance with the National Historic Preservation Act, Endangered Species Act, Clean Water Act and other Federal, State and local environmental review requirements.

BAER Team, Environmental Protection Specialist

Date

I concur and it is my decision to approve the plan.

I do not concur because.

Project Leader, Sacramento National Wildlife Refuge Complex

Date

I concur and it is my decision to approve the plan.

I do not concur because.

Manager, California Nevada Operations

Date